



Translation from Russian

## SU AUTHOR'S CERTIFICATE 331,154

### SPECIFICATION

#### SOIL CONSOLIDATION METHOD

The present invention relates to construction of roads and airfields.

The object of the present invention is to improve mechanical and physical properties of a soil.

The object is achieved by that lime taken in the amount of 2-3% by weight of the soil is preliminary injected into the soil, and then the soil is treated with bitumen-polymer emulsion.

Lime injected into the soil imparts water-resisting property to the soil, while bitumen-polymer emulsion imparts greater deformation capacity to the soil. The said bitumen- polymer emulsion is mass-produced domestically and has the following composition, %:

|  |                         |
|--|-------------------------|
| Bitumen БНД-40 (60)(BND-40)(60)) grade             | 50                      |
| Emulsifier (sulfite alcohol waste liquor)          | 1.75                    |
| Water  | 48.25                   |
| Latex-type polymer of<br>CKC-65-3 (SKS-65-3) grade | 7 by weight of emulsion |

#### Subject of Invention (Claims)

A method of soil consolidation used for construction, for example, of road or similar beds, which comprises mixing the soil with lime and bitumen emulsion, *characterized in that* with the object to improve mechanical and physical properties of the consolidated soil, lime taken in the amount of 2-3% by weight of soil is preliminary injected into the soil, and then the soil is treated with bitumen-polymer